

INTERNATIONAL SEARCH REPORT

Inter- national Application No
PCT/IB2004/003550

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B60L3/00 G01R31/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 B60L G01R H02J H02M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	EP 1 281 562 A (AISIN AW CO) 5 February 2003 (2003-02-05) abstract paragraph '0006! paragraphs '0130! - '0132! figure 1	1,7 2-6
A	EP 1 322 028 A (TOYOTA MOTOR CO LTD) 25 June 2003 (2003-06-25) figure 1 paragraphs '0016! - '0018! ----- -/-	1-7

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

20 January 2005

Date of mailing of the international search report

31/01/2005

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Inter. Int'l Application No
PCT/IB2004/003550

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 09, 13 October 2000 (2000-10-13) & JP 2000 166105 A (TOYOTA MOTOR CORP), 16 June 2000 (2000-06-16) abstract -----	1-7
A	PATENT ABSTRACTS OF JAPAN vol. 1996, no. 06, 28 June 1996 (1996-06-28) & JP 08 051800 A (TOYOTA MOTOR CORP), 20 February 1996 (1996-02-20) cited in the application abstract -----	1,7
A	PATENT ABSTRACTS OF JAPAN vol. 1996, no. 12, 26 December 1996 (1996-12-26) & JP 08 214592 A (KANSAI ELECTRIC POWER CO INC:THE; TOSHIBA CORP), 20 August 1996 (1996-08-20) cited in the application abstract -----	1,7

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Information on patent family members

International Application No
PCT/IB2004/003550

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 1281562	A	05-02-2003	JP	2003047107 A	14-02-2003
			EP	1281562 A2	05-02-2003
			US	2003033060 A1	13-02-2003
EP 1322028	A	25-06-2003	JP	2003189599 A	04-07-2003
			EP	1322028 A2	25-06-2003
			US	2003117823 A1	26-06-2003
			US	2004228150 A1	18-11-2004
JP 2000166105	A	16-06-2000	NONE		
JP 08051800	A	20-02-1996	NONE		
JP 08214592	A	20-08-1996	JP	3597591 B2	08-12-2004